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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/618,797	07/18/2000	Toshio Yamada	WATK: 197	8862
7590 02/23/2005			EXAMINER	
Parkhurst & Wendel L L P			DOROSHENK, ALEXA A	
1421 Prince Street Suite 210			ART UNIT	PAPER NUMBER
Alexandria, VA 22314-2805			1764	
			DATE MAILED: 02/23/2009	5

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
	09/618,797	YAMADA ET AL.
Office Action Summary	Examiner	Art Unit
•	Alexa A. Doroshenk	1764
The MAILING DATE of this communication	l l	
Period for Reply		
A SHORTENED STATUTORY PERIOD FOR F THE MAILING DATE OF THIS COMMUNICAT! - Extensions of time may be available under the provisions of 37 C after SIX (6) MONTHS from the mailing date of this communicati. - If the period for reply specified above is less than thirty (30) days. - If NO period for reply is specified above, the maximum statutory is Failure to reply within the set or extended period for reply will, by Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	ON. FR 1.136(a). In no event, however, may a on. a reply within the statutory minimum of the openiod will apply and will expire SIX (6) MO statute. cause the application to become A	a reply be timely filed irty (30) days will be considered timely. INTHS from the mailing date of this communication.
Status		
1) Responsive to communication(s) filed on	30 November 2004	
	This action is non-final.	
3) Since this application is in condition for all		tters, prosecution as to the merits is
closed in accordance with the practice un		
Disposition of Claims		
4)⊠ Claim(s) <u>1-13</u> is/are pending in the applica	ation	
4a) Of the above claim(s) 12 and 13 is/are		1.
5) Claim(s) is/are allowed.		•
6)⊠ Claim(s) <u>1-11</u> is/are rejected.		
7) Claim(s) is/are objected to.		
8) Claim(s) are subject to restriction a	nd/or election requirement.	
Application Papers		·
9) ☐ The specification is objected to by the Exa	miner.	
10)⊠ The drawing(s) filed on <u>30 November 2004</u>	is/are: a)⊠ accepted or b)□	objected to by the Examiner.
Applicant may not request that any objection to		
Replacement drawing sheet(s) including the co	rrection is required if the drawing	(s) is objected to. See 37 CFR 1.121(d).
11) The oath or declaration is objected to by th	e Examiner. Note the attached	d Office Action or form PTO-152.
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for for	eign priority under 35 U.S.C. §	§ 119(a)-(d) or (f).
a)⊠ All b)□ Some * c)□ None of:		
1. Certified copies of the priority docum		
2. Certified copies of the priority docum		
 Copies of the certified copies of the application from the International But 		received in this National Stage
* See the attached detailed Office action for a		received
	and servines depice flot	
Augusta (17)		
Attachment(s)) Notice of References Cited (PTO-892)	». □	
2) 🔲 Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s	Summary (PTO-413) s)/Mail Date
 Information Disclosure Statement(s) (PTO-1449 or PTO/SE Paper No(s)/Mail Date 	3/08) 5) 🔲 Notice of I	nformal Patent Application (PTO-152)
. Patent and Trademark Office	6) Other:	
	ce Action Summary	Part of Paper No./Mail Date 20050221

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DETAILED ACTION

Drawings

1. The drawings were received on November 30, 2004. These drawings are acceptable.

Claim Rejections - 35 USC § 112

- 2. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 3. Claim 8 continues to be rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Regarding claim 8, the phrase "like" renders the claim(s) indefinite because the claim(s) include(s) elements not actually disclosed (those encompassed by "like"), thereby rendering the scope of the claim(s) unascertainable. See MPEP § 2173.05(d).

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical

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Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

5. Claims 1, 4 and 5 are rejected under 35 U.S.C. 102(e) as being anticipated by Sussmilch et al. (6,405,437).

With respect to claim 1, Sussmilch et al. discloses a canned ceramic honeycomb structure (12) comprising:

a metal case (32);

a ceramic honeycomb structure (28) not loaded with catalyst (col. 8, lines 31-34) contained within said metal case (32);

a holding material (anchor mat, 30) between said ceramic honeycomb structure (28) and said metal case (32) having a common longitudinal direction and at least one peripheral edge perpendicular to said longitudinal direction (see figures 5 and 9); and

an impermeable layer (end cap, 142) located on said at least one edge plane of the holding material (30).

With respect to claim 4, an edge plane of the ceramic honeycomb structure (28) and the edge plane of the holding material (30) having the impermeable layer thereon are substantially in common (see figure 9).

With respect to claim 5, it can be seen that the end cap (142) is adhered to the holding material (30) along one edge plane (see figure 9).

Claim Rejections - 35 USC § 103

6. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

7. Claims 2 and 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sussmilch et al. (6,405,437).

With respect to claim 2, the apparatus of Sussmilch et al. is substantially the same as that of the instant claim, but is silent as to the specific length of the impermeable layer.

However, it would have been obvious to one of ordinary skill in the art at the time the invention was made to select an appropriate size for the impermeable layer on the basis of its suitability for the intended use, absent showing any unexpected results, and since it has been held that when the only difference between the prior art device and a claim is a recitation of relative size, and the device with the relative size would not perform differently than that prior art device, the claimed device is not patentably distinct.

With respect to claim 10, the apparatus of Sussmilch et al. is substantially the same as that of the instant claim, but is silent as to the specific thickness of the partitions of the ceramic honeycomb structure.

However, it would have been obvious to one of ordinary skill in the art at the time the invention was made to select an appropriate size for the partitions of the ceramic honeycomb structure on the basis of its suitability for the intended use, absent showing any unexpected results, and since it has been held that when the only difference

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between the prior art device and a claim is a recitation of relative size, and the device with the relative size would not perform differently than that prior art device, the claimed device is not patentably distinct.

8. Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Sussmilch et al. (6,405,437) in view of Rosynsky et al. (4,142,864).

Sussmilch et al. illustrates of an end cap (142) providing an impermeable layer on the edge of the holding material, but fails to disclose alternative materials by which to achieve this same result.

Rosynsky et al. teaches a similar exhaust gas treatment apparatus with a ceramic honeycomb (28), a metal case (12), a holding material (42/43) and an impermeable layer (45) on an edge of the holding material (see figures 1 and 3). Rosynsky et al. teaches wherein their impermeable layer (45), or plug, aids in preventing passage of the exhaust gas into the area between the honeycomb element and the casing, thereby assuring that all of the gas to be treated passes through the honeycomb (col. 3, lines 11-15). The pressure properties of the impermeable layer (45) are approximately equal to or less than those of the holding material (42/43) in order to inhibit axial movement of the honeycomb element (col. 2, lines 50-66).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to select the plug member of Rosynsky et al. for use in the apparatus of Sussmilch et al. in order to ensure that all of the exhaust gas being treated travels through the ceramic honeycomb structure as well as to inhibit movement of the honeycomb structure within the casing.

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9. Claims 6, 8 and 9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sussmilch et al. (6,405,437) in view of Close et al. (3,959,865).

Sussmilch et al. illustrates of an end cap (142) providing an impermeable layer on the edge of the holding material, but fails to disclose alternative materials by which to achieve this same result.

Close et al. discloses a similar exhaust gas treatment apparatus which comprises a ceramic honeycomb (20), a metal case (10), a holding material (30) and an impermeable layer (22) on an edge of the holding material (see figure 1). Close et al. further disclose wherein the impermeable material (22) is a thin film of paper which is impregnated with impermeable matter including fiber and organic materials (col. 3, line 55- col. 4, line 24).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to select the impermeable material of Close et al. for use in the apparatus of Sussmilch et al. in order to ensure that all of the exhaust gas being treated travels through the ceramic honeycomb structure as well as to inhibit movement of the honeycomb structure within the casing.

10. Claim 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over Sussmilch et al. (6,405,437) in view of Harding (6,017,498).

Sussmilch et al. illustrates of an end cap (142) providing an impermeable layer on the edge of the holding material, but fails to disclose alternative materials by which to achieve this same result.

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Harding discloses a similar exhaust gas treatment apparatus which comprises a ceramic honeycomb (6), a metal case (4), a holding material (8, 8') and an impermeable layer (38) made of a rope (col. 3, lines 52-55) on an edge of the holding material (see figures 1 and 3) in order to form a gas tight seal (col. 3, lines 52-57). Harding also discloses wherein the impermeable layer (38) made of a circular cross sectional rope (col. 3, lines 52-55) and impregnated with impermeable matter (col. 3, line 65- col. 4, line 4).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to select the impermeable rope material of Harding for use in the apparatus of Sussmilch et al. in order to ensure that all of the exhaust gas being treated travels through the ceramic honeycomb structure by the gas tight seal.

11. Claim 11 is rejected under 35 U.S.C. 103(a) as being unpatentable over Sussmilch et al. (6,405,437) in view of Machida et al. (5,782,089).

Sussmilch et al. discloses wherein the anchor mat is made of "an intumescent material or other suitable material" (col. 3, lines 39-44), but fails to disclose a non-intumescent ceramic fiber mat.

Machida et al. discloses a similar exhaust gas treatment apparatus which comprises a ceramic honeycomb (1), a metal case (2), a holding material (3) and an impermeable layer (4) on an edge of the holding material (see figure 1). Machida et al. further discloses wherein the holding material (3) is a ceramic fiber mat in a compressed state (col. 3, lines 36-41). It would have been obvious to one of ordinary skill in the art at the time the invention was made to select the compressed ceramic fiber mat of

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Machida et al. for the anchor mat of Sussmilch et al. since it merely the selection of a mat material recognized as suitable for a ceramic honeycomb exhaust treatment device.

Response to Arguments

<u>Drawings</u>

The objection to the drawings is withdrawn due to applicant's amendments and arguments.

35 USC 112, Second Paragraph

The rejection of claim 9 is withdrawn due to applicant's amendment to the claim.

The rejection of claim 8 is maintained since the phrase "like fiber" continues to appear in the claim.

35 USC 102 &103 Rejections

Applicant argues that each of the applied references have ceramic honeycomb structures which have catalyst material and therefor do not read on the claims reciting that "a ceramic honeycomb structure not loaded with a catalyst".

The examiner agrees with applicant and has presented new grounds of rejection above.

Conclusion

12. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alexa A. Doroshenk whose telephone number is 571-272-1446. The examiner can normally be reached on Monday - Thursday from 9:00 AM - 7:30 PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Glenn Caldarola can be reached on 571-272-1444. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Alexa A. Doroshenk

Examiner Art Unit 1764